

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A color wheel apparatus, comprising:

a color filter portion in which color filters for selectively transmitting red, green and blue colors are formed on a circular plate in a spiral shape with respect to a rotation axis of the circular plate; and

~~a reflective plate opposed to the color filter to reflect an incident light reflected and emitted from the color filter into the color filter again~~ a driving portion for rotating the circular plate.
2. Canceled
3. (Currently Amended) The color wheel apparatus as claimed in claim 1, ~~wherein the color filter is provided on a circular plate, and the reflective plate is provided at the rear side of the circular plate~~ further comprising a reflective plate for reflecting a light reflected from an incident light to the color filter portion into the color filter portion again.

4. (Currently Amended) The color wheel apparatus as claimed in claim 1, wherein the reflective plate has a relatively smaller size than the color filter portion.

5. (Original) A color-separating apparatus for a liquid crystal projector of single panel type, comprising:

a color wheel including a color filter in which red, green and blue colors are formed in a spiral shape, and a reflective plate opposed to the color filter to reflect an incident light reflected and emitted from the color filter into the color filter again;

a condensing lens for focusing a color light emitted from the color wheel;

a polarizing prism for reflecting and transmitting an incident light inputted from the condensing lens in accordance with a polarized direction;

a display device for reflecting the color light reflected from the polarizing prism and being incident thereto in accordance with an image signal to implement a picture light loaded with picture information; and

a projective lens for projecting the picture light from the display device on an expanded scale.

6. (Original) The color-separating apparatus as claimed in claim 5, wherein the color filter takes a spiral shape in which red, green and blue colors are entered toward the rotation center direction.

7. (Original) The color-separating apparatus as claimed in claim 5, wherein the color filter is provided on a circular plate, and the reflective plate is provided at the rear side of the circular plate.

8. (Original) The color-separating apparatus as claimed in claim 5, wherein the reflective plate has a relatively smaller size than the color filter.

9. (Currently Amended) A color-separating apparatus for a liquid crystal projector of single panel type, comprising:

a color wheel having ~~alternating red, green and blue concentric circles~~ a color filter portion in which color filters for selectively transmitting red, green and blue lights are sequentially formed on a circular plate in concentric circles; and

a driving portion for rotating the circular plate

~~a full-reflecting mirror, being fixed to an incidence surface of the color wheel, for reflecting an incident light reflected and emitted from the incidence surface of the color wheel toward the color wheel.~~

10. (Currently Amended) The color-separating apparatus as claimed in claim 9, wherein the ~~full-reflecting mirror is fixed to the incidence surface of the color wheel in parallel~~ further comprising:

a reflective plate for reflecting a light reflected from an incident light to the color filter portion into the color filter portion again.

11. (Original) The color-separating apparatus as claimed in claim 9, wherein the color wheel has the red, green and blue concentric circles spaced at the same distance d (wherein d is a positive number meeting a relationship of $d > 0$).

12. (Original) The color-separating apparatus as claimed in claim 9, wherein a rotation axis of the color wheel makes a non-axial rotating motion at a position spaced at the same distance d from a center axis of the concentric circles.

13. Canceled

14. (Original) The color-separating apparatus as claimed in claim 9, further comprising:

a condensing lens for focusing a color light emitted from the color wheel;

a polarizing prism for reflecting and transmitting an incident light inputted from the condensing lens in accordance with a polarized direction;

a display device for reflecting the color light reflected from the polarizing prism and being incident thereto in accordance with an image signal to implement a picture light loaded with picture information; and

a projective lens for projecting the picture light from the display device on an expanded scale.

15. (Original) The color-separating apparatus as claimed in claim 9, wherein the color wheel includes five color areas consisting of red, green, blue, red and green color areas to image an illuminating light on three areas of the five color areas.

16. (New) The color wheel apparatus as claimed in claim 1, wherein a plurality of color filters are formed along a radial direction of the color filter portion, and wherein a plurality of colors are filtered in the radial direction.

17. (New) The color wheel apparatus as claimed in claim 16, wherein the color filters simultaneously filter red, green and blue colors in a prescribed time interval.

18. (New) The color-separating apparatus as claimed in claim 5, wherein first, second and third color filter portions form the color filter, and wherein a plurality of color filter portions

exist in the color wheel sequentially positioned in a radial direction from an inner radial portion of the color wheel to an outer radial portion of the color wheel.

19. (New) The color-separating apparatus as claimed in claim 9, wherein the color filters simultaneously filter red, green and blue colors in a prescribed time interval.

20. (New) A color wheel apparatus, comprising:
a color filter portion having first, second and third color filters configured to selectively transmit first, second and third colors; and
a driving device configured to rotate the color filter about a center portion, wherein a plurality of color filters are divided in at least one radial direction extending from the center portion of the color filter portion.

21. (New) The color wheel apparatus of claim 20, wherein the color filter is formed on a supporting device, and wherein the plurality of color filters are formed along radial directions from the center portion of the color filter portion.

22. (New) The color wheel apparatus of claim 20, wherein the plurality of color filters are formed in one of a spiral shape and a plurality of sequential annuli offset from the center portion.

23. (New) The color wheel apparatus of claim 22, wherein the color filter portion filters the same color in a circumferential direction around the center portion.